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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/790,604

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Robert W. Johnson JR.

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20792 7590 10/24/2007
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EXAMINER

DEBERADINIS, ROBERT L

ART UNIT

PAPER NUMBER

2836

MAIL DATE

DELIVERY MODE

10/24/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/790,604	Applicant(s) JOHNSON ET AL.	
	Examiner Robert DeBeradinis	Art Unit 2836	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 August 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-37 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-37 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

The reply filed 8/14/07 consists of remarks related to rejection of claims.

Response to Arguments

Applicant's arguments, see remarks, filed 8/14/07, with respect to the rejection(s) of claim(s) under SOBKOW have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of KADOI et al. 7,181,630 and ENGEL et al. 6,320,585.

Claim Rejections - 35 USC § 102

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 1-11,13,14,26-31,34,35,36 are rejected under 35 U.S.C. 102(e) as being anticipated by KADOI et al. 7,181,630.

CLAIMS 1,26,34,35,36.

KADOI et al. discloses a plurality of segment loading indicators configured to be electrically coupled to respective load segment outputs of a power supply, each of the loading indicators operative to provide an indication of a loading of the associated load segment output (col. 23, lines 47-68).

CLAIMS 2,4,5,6,7,8,10,13,27,29,30,31.

KADOI et al. discloses. wherein at least one of the segment loading indicators is operative to provide an indication of a loading of the associated

load segment output with respect to load rating of the associated load segment output (fig. 6).

CLAIMS 3,28.

KADOI et al. discloses. wherein at least one of the segment loading indicators is operative to provide an indication of a loading of the associated load segment output with respect to a load rating of a circuit protection device that protects the associated load segment output (FIG. 9, col. 29, lines 59 plus).

CLAIM 9,11.

KADOI et al. discloses, wherein the power distribution device comprises one of a power distribution unit (PDU) or load panel (FIG. 9).

CLAIM 14.

KADOI et al. discloses, wherein at least one of the segment loading indicators comprises: a current detector circuit operative to generate a current detector signal representative of current at the associated load segment output; and a display circuit operative to generate a visual display responsive to the current detector signal (col. 30, lines 50 plus).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 15-22, 24, 25, 33, 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over KADOI et al. 7,181,630.

CLAIMS 15, 16.

KADOI et al. discloses an apparatus according to claim 14 wherein power to a circuit is managed. It is obvious that power is a function of the current in the circuit and is part of the measurement to determine power delivered in the circuit thus current detection is obviously part of the UPS management system.

KADOI et al. is silent with respect to the current transformer or the current sense resistor both of which are well known in the art to sense the current through a circuit.

It would have been obvious to one having ordinary skill in the art at the time of this invention was made to use a current transformer or a current sense resistor to sense current in the circuit since it was known in the art to use current sensing devices such as these devices to sense current in a circuit.

CLAIMS 17-22, 24, 25, 33, 37.

KADOI et al. discloses an uninterrupted power supply managing system is described for managing a plurality of small UPS devices, the small UPS devices are connected to power supply routes between wall sockets and load devices (abstract). The small devices obviously are contained in housings having panels with user interface means and operative to generate a voltage at the power output.

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KADOI et al. teaches panels, indicators and panels, but is silent as to a second panel.

It would have been obvious to merely interface, indicators and panels in an UPS to manage the UPS since it has been held that rearranging parts of an invention involves only routine skill in the art. In re Japikse, 86 USPQ 70.

Claims 12, 23, 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over KADOI et al. 7,181,630 in view of ENGEL et al. 6,320,585.

CLAIMS 12, 23, 32.

KADOI et al. discloses the UPS apparatus as claimed having indicators to indicate segment loading.

KADOI et al. does not disclose indicators wherein the segment loading indicator is operative to provide respective color displays for respective load levels.

ENGEL et al. discloses segment indicators operative to provide respective color displays for respective bandwidth utilization of a segment.

It would have been obvious to one having ordinary skill in the art at the time of this invention to have modified the segment loading indicator to have a color display to display respective load levels on a segment to enhance the indication for the segment loading.

Any inquiry concerning this communication should be directed to Robert L. DeBeradinis whose number is (571) 272-2049. The Examiner can normally be reached Monday-Friday from 8:30 am to 5:00 pm.

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If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Michael Sherry, can be reached on (571) 272-2058. The Fax phone number for this Group is (571) 272-8300.

RLD

OCTOBER 17, 2007


ROBERT L. DEBERADINIS
PRIMARY EXAMINER